

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6117 (1977): Tapes, Cotton [TXD 12: Narrow Fabrics, Webbing and Braids]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



Indian Standard
SPECIFICATION FOR TAPES, COTTON
(First Revision)

REAFFIRMED 2006

1. **Scope** — Covers cotton tapes mainly for the defence purposes.
2. **Finished Tapes** — Uniformly woven with regular and firm selvages, and also free from starch (see 4).
3. **Physical Requirements** — As specified in Table 1.

TABLE 1 PHYSICAL REQUIREMENTS OF COTTON TAPES

Length/ Roll	Width, Min	Mass, Min	Ends in Full Width, Min	Picks/ cm, Min	Approximate Count of Yarn for Manufacturers' Guidance		Breaking Strength on Full, Min Width × 20 cm	Finish	Weave
					Warp	Weft			
	mm	g/100m					N (kgf)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
25 m (unless otherwise specified) + 2 percent - 0	19	290	55	13	20 tex × 2 (30 _s /2)	20 tex (30 _s)	155 (16)	Scoured/bleached/dyed as required	Plain or 3/1 Twill/Herring bone or their combination as per sealed sample available with CIT & C, Kanpur
	13	130	40	16	10 tex × 2 (60 _s /2)	20 tex (30 _s)	110 (11)		
	19	185	56				155 (16)		
	25	235	70				195 (20)		
	13	530	39	12	37 tex × 3 (16 _s /3)	23 tex × 2 (26 _s /2)	490 (50)		
	19	790	58				735 (75)		
	25	1065	78				980 (100)		
	38	1600	118				1 470 (150)		
	25	825	50	6	60 tex × 2	(10 _s /2)	490 (50)		
	21	360	106	25	20 tex × 2 (30 _s /2)	7.5 tex × 2 (79 _s /2)	315 (32)		

**Method
of Test**

IS : 1954-1969*

IS : 1964-
1970†

IS : 1963-1969‡

IS : 3442-1966§

IS : 1969-
1968||

*Methods for determination of length and width of fabrics (first revision).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (first revision).

‡Methods for determination of threads per decimetre in woven fabrics (first revision).

§Method for determination of crimp and count of yarn removed from fabrics.

||Method for determination of breaking load and elongation at break of woven textile fabrics (first revision).

4. **Chemical Requirements** — As specified in Table 2.
5. **Jointed Lengths** — 2-piece lengths, *Max*, each measuring minimum 5 m in not more than 5 percent of the rolls in the lot.
6. **Marking** — Each roll shall be marked with the following information:
 - a) Name of the material;
 - b) Length (m) and width (mm) of tape;
 - c) Manufacturer's name, initials or trade-mark, if any; and
 - d) Year of manufacture.

6.1 Certification Marking — Details available with the Bureau of Indian Standards.

Adopted 10 January 1977

© March 1977, BIS

Gr 1

TABLE 2 CHEMICAL REQUIREMENTS OF COTTON TAPES

(Clause 4)

Sl No.	Requirement	Scoured	Bleached	Dyed	Containing Navy Blue	Method of Test
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Water solubles, percent, <i>Max</i>	—	—	—	1	IS : 3456-1966*
ii)	Ash content after removing water solubles, percent, <i>Max</i>	—	—	—	0.5	IS : 199-1973†
iii)	Colour fastness to:					
	a) Light	—	—	3 or better	5 or better	IS : 2454-1975‡
	b) Washing	—	—	—	4 or better	IS : 764-1966§
	c) Bleaching	—	—	—		IS : 762-1956
iv)	Scouring loss, percent, <i>Max</i>	6	3	3	3	Severe method IS : 1383-1960¶
v)	pH value	←————— 6.0 to 8.5 —————→				IS : 1390-1961**

*Method for determination of water soluble matter of textile materials.

†Method for estimation of moisture, total size or finish, ash and fatty matter in grey and finished cotton textile materials (second revision).

‡Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

§Method for determination of colour fastness of textile materials to washing: test 3 (first revision).

||Method for determination of colour fastness of textile materials to hypochlorite bleaching.

¶Method for determination of scouring loss in grey and finished cotton textile materials (first revision).

**Methods for determination of pH value of aqueous extracts of textile materials.

7. Packing — As specified in the contract.

8. Sampling — As follows unless otherwise specified:

For Length, Width, Ends and Picks			Sub-sample Size of Mass, Scouring Loss, pH, Water Solubles, Ash Contents, Breaking Strength, Colour Fastness	
Lot Size (Rolls)	Sample Size (Rolls)	Permissible Number of Defective Rolls		
Up to 50	3	0	3	Mean \pm 0.6 range to be within specified values
51 to 150	5	0	3	
151 „ 300	8	1	4	
301 „ 500	13	1	5	
501 and above	20	2	7	

EXPLANATORY NOTE

This standard is based on the following specifications issued by the Ministry of Defence, Government of India:

IND/TC/0313 Tape, cotton, white, 19 mm

IND/TC/0315 Tape, cotton superfine, undyed — 13 mm, 19 mm, 25 mm

IND/TC/0318 Tape, cotton-grey, khaki, O.G. very dark drab

IND/(Navy)/TC/0345 Tape, cotton, composite, mid blue, 21 mm

IND/TC/0352 Tape, drawstring, 2.5 cm.

AMENDMENT NO. 1 OCTOBER 1977
TO
IS:6117-1977 SPECIFICATION FOR
TAPES, COTTON

(First Revision)

Corrigendum

(Page 2, informal table under clause 8, under fourth column) - Substitute 'Mean + 0.4 range to be within specified value except in case of colour fastness where all the samples shall satisfy the specified requirement' for 'Mean + 0.6 range to be within specified values'.

(TDC 25)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 2 JULY 1986
TO
IS : 6117 - 1977 SPECIFICATION FOR TAPES, COTTON
(First Revision)

(This Amendment has been carried out to indicate Variety Number of different sizes and varieties of tapes covered in Table 1 for ease of reference.)

(Page 1, clause 3, Table 1) — Substitute the following for the existing table:

TABLE 1 PHYSICAL REQUIREMENTS OF COTTON TAPES										
<i>(Clause 3)</i>										
Variety No.	Width <i>Min</i>	Mass <i>Min</i>	Ends in Full Width <i>Min</i>	Picks/ cm, <i>Min</i>	Approximate Count of Yarn for Manufacturers' Guidance		Breaking Strength on Full, Width × 20 cm, <i>Min</i>	Length, Roll	Finish	Weave
(1)	(2)	(3)	(4)	(5)	Warp	Weft	(8)	(9)	(10)	(11)
	mm	g/100 m			(6)	(7)	N (kgf)			
1	19	290	55	13	20 tex × 2 (30 s/2)	20 tex (30 s)	155 (15)			
2	13	130	40	16	10 tex × 2 (60 s/2)	20 tex (30 s)	110 (11)	25 m (unless otherwise specified) 2 percent — 0	Scoured/bleached/dyed as required	Plain or 3/1 Twill/Herringbone or their combinations per sealed sample available with CIT&C, Kanpur
3	19	185	56				155 (16)			
4	25	235	70				195 (20)			
5	13	530	39	12	37 tex × 3 (16 s/3)	23 tex × 2 (26 s/2)	490 (50)			
6	19	790	58				735 (75)			
7	25	1 065	78				980 (100)			
8	38	1 600	118				1 470 (150)			
9	25	825	50	6	60 tex × 2	(10 s/2)	490 (50)			
10	21	360	106	25	20 tex × 2 (30 s/2)	7.5 tex × 2 (79 s/2)	315 (32)			
Method of Test	IS : 1954-1969*	IS : 1964-1970†	IS : 1963-1981‡		IS : 3442-1980§		IS : 1969-1985¶	IS : 1954-1969*		

*Methods for determination of length and width of fabrics (*first revision*).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).

‡Methods for determination of threads per unit length in woven fabrics (*second revision*).

§Methods for determination of crimp and count of yarn removed from fabrics (*first revision*).

¶Method for determination of breaking load and elongation of woven textile fabrics (*second revision*).